

CLAIMS

1. A titanium dioxide pigment containing an anatase type crystal in an amount of 98-100% and having an average particle diameter in the range of 0.2-0.4 μm and a whiteness in the range of 95-97 in terms of L value of linseed oil.
2. A titanium dioxide pigment according to claim 1 which contains 50-100% by weight of particles having a particle diameter in the range of 0.2-0.4 μm .
3. A titanium dioxide pigment according to claim 1 in which content of sulfate group is not more than 0.1% by weight calculated as SO_4 .
4. A titanium dioxide pigment according to claim 1, the surface of which is coated with at least one compound selected from an inorganic compound and an organic compound.
5. A titanium dioxide pigment according to claim 4, wherein the inorganic compound is at least one compound selected from aluminum compound, silicon compound, zirconium compound, tin compound, titanium compound and antimony compound.
6. A titanium dioxide pigment according to claim 5, wherein the inorganic compound is at least one compound selected from oxide, hydrated oxide, hydroxide and phosphate salt.
7. A titanium dioxide pigment according to claim 6, wherein the coating amount of each inorganic compound is in the range of 0.05-15% by weight.

8. A titanium dioxide pigment according to claim 4, wherein the organic compound is at least one compound selected from polyhydric alcohol, alkanolamine or derivative thereof, organosilicon compound, and higher fatty acid or metal salt thereof.

9. A titanium dioxide pigment according to claim 8, wherein the total coating amount of the organic compound is in the range of 0.01-5% by weight.

10. A method for producing an anatase type titanium dioxide pigment by calcination of a hydrous titanium oxide with heating in the presence of a calcination treating agent, the method comprises calcining the hydrous titanium oxide by heating it at a temperature of not lower than 800°C and lower than 1000°C, using as the calcination treating agents an aluminum compound corresponding to 0.02-0.2% by weight calculated as Al_2O_3 , a potassium compound corresponding to 0.2-1% by weight calculated as K_2O and a phosphoric acid compound corresponding to 0.02-0.5% by weight calculated as P_2O_5 based on the weight of TiO_2 in the hydrous titanium oxide, the ratio $\text{K}_2\text{O}/\text{P}_2\text{O}_5$ being in the range of 1.5/1-10/1.

11. A method for producing a titanium dioxide pigment according to claim 10, wherein the hydrous titanium oxide has a particle diameter of 0.001-0.01 μm .

12. A resin composition comprising a titanium dioxide pigment and a resin component wherein the

titanium dioxide pigment contains an anatase type crystal in an amount of 98-100%, has an average particle diameter in the range of 0.2-0.4 μm and has a whiteness in the range of 95-97 in terms of L value of linseed oil.

13. A resin composition according to claim 12, wherein the titanium dioxide pigment contains 50-100% by weight of particles having a particle diameter in the range of 0.2-0.4 μm .

14. A resin composition according to claim 12, wherein the resin component is a paint resin, an ink resin or a plastic resin.

15. A resin composition according to claim 12 which contains the titanium dioxide pigment in an amount of 0.5-10 parts by weight based on 1 part by weight of the paint resin component.

16. A resin composition according to claim 12 which contains the titanium dioxide pigment in an amount of 0.5-10 parts by weight based on 1 part by weight of the ink resin component.

17. A resin composition according to claim 12 which contains the titanium dioxide pigment in an amount of 0.05-2 parts by weight based on 1 part by weight of the plastic resin component.